

(21) Application No 8809987

(22) Date of filing 27 Apr 1988

(30) Priority data

(31) 3714990

(32) 6 May 1987

(33) DE

(71) Applicant

MTU Motoren-Und Turbinen-Union Munchen GmbH

(Incorporated in FR Germany)

Postfach 50 06 40, 8000 Munchen 50,
Dachauer Strasse 665, Federal Republic of Germany

(72) Inventors

Helmut Geldel

Alois Rohrs

(74) Agent and/or Address for Service

Withers & Rogers

4 Dyers Buildings, Holborn, London, EC1N 2JT

(51) INT CL*

F02K 3/06 F02C 7/06

(52) Domestic classification (Edition J):

F1J 2A1B

F1G 14 2

U1S 1839 F1G F1J

(56) Documents cited

GB 1322405

(58) Field of search

F1G

F1J

F1V

Selected US specifications from IPC sub-classes

F01D F02C F02K

54) Reduction gear lubrication in a proplan turbo propulsion unit

57, The reduction gearing 6 for the proplan rotors 11, 12 has a separate lubricating oil system which is disposed axially between the gas turbine (35, Fig. 1) and the reduction gearing. This provides improved dissipation of heat occurring in the gear mechanism, together with satisfactory utilisation of the available space. The lubricating system comprises an annular oil tank 20, an oil pump 21 and an annular oil cooler 24 cooled by air flow 26. The reduction gearing includes sun wheel 5 and planet wheels 7 and 13 and drives the rotors 11, 12 in opposite directions.

